A4297

BAY AREA
AIR POLLUTION CONTROL DISTRICT
939 Ellis Street
San Francisco, California 94109
771-6000

ADVISORY COUNCIL

SUBCOMMITTEE ON MANUAL OF PROCEDURES

Wednesday
March 29, 1978
1:00 P.M.

939 Ellis Street
San Francisco
California 94109

M I N U T E S

COMMITTEE MEMBERS PRESENT:	Lowell V. Smith, Chairperson; Shirley J. Campbell, Hiram Wolch.
COMMITTEE MEMBERS ABSENT:	Joseph D. Coons, John L. Nicholson.
STAFF MEMBERS PRESENT:	Steve Balestrieri, Dario Levaggi, Walter Oyung, Mabel Harder.

- - -

Chairperson Smith called the meeting to order at 1:10 P.M.

APPROVAL OF MINUTES OF FEBRUARY 22, 1978

Mrs. Campbell requested the following corrections:

Page 3, line 19, to read, "...1.00 x 10^3 ug ..."

Page 6, paragraph 14, line 1 to read, "...chromosorb..."

Page 7, paragraph 11, to read, "... described in 4.11..."

Page 8, paragraph 17, to read, "...($\pm$.01 ml)..."

Dr. Wolch moved the minutes be approved as corrected; seconded by Mrs. Campbell; carried.

REVIEW OF LABORATORY METHODS INVOLVING HYDROCARBONS LABS 13, 17, 21, 22

LAB 13 - Determination of Reid Vapor Pressure of Petroleum Products. Mr. Levaggi made the following corrections:

1. - Principle - line 1 to read, "...saturation of petroleum products...using a Reid Vapor Pressure Bomb."

2.2 - add: The Unit is equipped with a 4", 0 to 15 psig gauge (Fig. 2).

2.4 - delete

3.2.1-delete the words, "or refrigerator".

3.2.2-delete the words, "refrigerator or".

3.3 - delete the words, "refrigerator or".

3.3.3-lines 9 and 10 - change "lb" to "psi"
line 11 to read, "...The value obtained is..."

4. - change "5.2" to "4.2". Mr. Levaggi is to determine if this could be put into a Figure 3.

LAB 17 - Standardization of Hydrocarbon Calibration Gas.

Mr. Levaggi made the following changes:

In Title - "Gas", change to "Gases".

2. - line 4 - change the word "employed" to "used".

3.1 - to read, "...The unit is equipped...".

3.2 - to read, "Analytical column. Any column may be used which is capable of resolving hydrocarbons of interest, such as:

add: 3.2.1 - For methane, C, a 6 ft. 1/8" chromosorb 102, 80/100 mesh column is normally used.

add: 3.2.2 - For propane, C, a 6 ft. 1/8" chromosorb 102, 80/100 mesh column is normally used.

add: "3.2.3 - For hexane, a 6 ft. $\frac{1}{4}$" silicone on firebrick 60/80 mesh column is normally used.

3.3 - to read, "Stainless steel (SS) tanks. Used 4-34 liter tanks calibrated for volume which have been ...."

3.4 - to read, "Syringes. Use 5, 10 and 30 ml calibrated syringes."

3.5 - to read, "...The tubing must be able...Usually 3 to 4 feet long, and adapted...connect the SS tank..."

3.6 - to read, "...(0 to 60 and 0 to 250 psig)".

4.2 - to read, "Nitrogen gas or air (<1 ppm hydrocarbon)."

5.1 - delete "34 liter".

Correct the spelling of pre-determined; change 5.5 to "5.4". The third sentence to read,"...the hydrocarbon from the syringe through...".

Delete the 4th sentence.

Mr. Levaggi is to add a sentence to refer to liquid gas. He will also change line 1 to accommodate a vacuum to be achieved.

5.2 - to read, "Bleed cylinder nitrogen or air into the SS tank by means of the flex-tubing."

5.3 - add to 5.2 and change 5.5 mentioned therein to "5.4".

5.4 - renumber 5.3.

5.5 - renumber 5.4 and change to read, "Calculate the prepared..."

Mr. Levaggi will add another equation to deal with liquid gas.

6.1 - sentence 3 to read, "Obtain the average...heights... (...by more than ±5% of the mean)."

6.1.1- change to 3.2.1.

6.1.2- change to 3.2.2

6.1.3- change to 3.2.3

6.2 - to read, "...calibration gas cylinder."

7.1 - second sentence to read, "The...reported is the average...".

LAB 21 - DETERMINATION OF COMPLIANCE FOR ARCHITECTURAL WATER-BASED COATINGS.

Mr. Levaggi made the following changes:

1. - line 5 to read, "thermal-conductivity...".

2.1 - to read, "Gas chromatograph. The unit is equipped with a thermal-conductivity detector, and a glass sleeve injection port."

2.2 - deleted.

2.3 - renumbered 2.2 and changed to read, "Analytical column. Use a..."

2.4 - renumber 2.3.

2.5 - renumber 2.4.

2.6 - renumber 2.5. Change to read, "Aluminum dishes. Use... high dishes with flat bottoms."

2.7 - renumber 2.6. Change to read, "Drying oven. 105°C ±1°C."

2.8 - renumber 2.7.

2.9 - renumber 2.8.

2.10 - renumber 2.9. Change to read, "Analytical balance".

2.11 - renumber 2.10, and change to read, "Disposable... These are available..."

3.1 - change to read, "Methanol, anhydrous. This reagent cannot be used for this procedure as it contains >0.1% W/W water. Determine the water content by gas chromatograph prior to use.

4.1.1- change to read, "Weigh 0.4 to 0.6 gm (±.0001) of paint in a pre-weighed...with 2 ml of distilled...distributed. Dry the sample in an oven..."

4.2.2- to read, "Wt. non-volatiles..."

4.2.3- change to read, "% non-volatiles..."

4.2.4- change to read, "% total volatiles..."

4.3 - delete "of Paint".

4.3.1- delete

4.3.1.1-delete

4.3.1.2-renumber 4.3.1 and change to read, "Assemble the simple distillation apparatus..."

4.3.1.3-renumber 4.3.1.1.

4.3.1.4-renumber 4.3.1.2, and change to read, "To the flask, add approximately...Reweigh the flask and reassemble the apparatus."

4.3.1.5 - renumber 4.3.1.3, and change to read, "Place... a Glas-col...to minimize..."

4.3.1.6 - renumber 4.3.1.4, and change to read, "Connect the Glas-col heater to a Powerstat...Remove the... Glas...graduated cylinder containing the distillate. Record..."

4.5 - change to read, "Determination of Water Content of (W/W) the Distillate"

4.5.1 - change to read, "General column and instrument parameters:"

4.5.2 - change line 3 to read, "1 ml of the...flask. Reweigh the flask containing the distillate. Add to the distillate 10 ml..."

4.5.3 - add a "/" between distillate and methanol.

4.6.2 - change 4.4.3 to read, "Wt. flask with distillate minus Wt. flask."

4.6.3 - add "(4.5.3)".

4.6.5 - the top line of the formula to read, "4.6.4"; the bottom line of the formula is to read, "Wt. flask with distillate minus Wt. flask."

6.1 - to read, "Using methanol as a diluent, make up a series of water standards in 25 ml volumetric flasks as follows: 0.0%, 0.5%, 1.0%, 5.0%, 10.0% and 15.0% (W/W)."

LAB 22 - DETERMINATION OF COMPLIANCE FOR ARCHITECTURAL OIL BASED COATINGS.

Mr. Levaggi made the following changes:

2.1.1 - delete.

2.1.2 - delete.

2.1.3 - delete.

2.1.4 - delete.

2.5 - change to read, "Aluminum --- dish. Use --- high dishes ---".

2.6 - to read "Drying oven.".

2.7 - change "gm" to "g".

2.8 - correct spelling of "pipettes".

4.1 - change to read "Determination of Total ---".

4.1.1 - change to read, "Weigh --- (± .0001) ---".
"Disperse --- 2 ml toluene --- distributed."

4.2.2 - change to read "Wt. non Volatile ---".

4.2.3 - change to read, "% non Volatile ---".

4.2.4 - change to read, "% Total Volatiles ---".

4.3.1 - change grams and gram to read "g".

4.3.4 - last line, change "Measure" to "Read".

4.4 - change "Wt." to "g".

4.5.3 - change to read, "Reweigh the volumetric flask (W_2)".

LAB 6 - DETERMINATION OF PARTICULATE AND GASEOUS MERCURY EMISSIONS.

Mr. Levaggi made the following changes:

Correct spelling of "Gaseous" in the title.

2.3 - change to read, "BOD (Biological Oxygen Demand) ---".

3.1 - change to read, "Potassium Iodide Solution ---".

TIME AND PLACE OF NEXT MEETING

10:00 A.M., Thursday, April 20, 1978, 939 Ellis Street, San Francisco, California.

The meeting adjourned at 3:05 PM.

Respectfully submitted,

Mabel Harder
Secretary

MH:js

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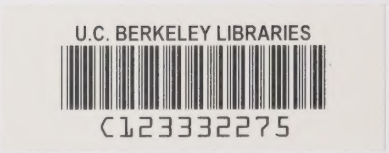

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